



FIG. 2: Syndecan-1 (rat) extracellular domain: M81785

atgagac gtgcggcgct
ctggctttgg ctctgcgcgc tggcgtcg cctgcaggct gccctccgc aaattgtcac
cgcaaatgtg ctcctgaag accaagatgg ctctggggac gactcagaca acttctctgg
ctcaggcaca ggtgctttgc cagatatgac tttgtcacgg cagacacacctt ccacttgaa
ggatgtgtgg ctcctgacac ctacacccac agctccagaa cccaccagca gggataccga
ggccaccctc acctctatcc tgccggctgg agagaaggct gaggaggag agcccgtggc
ccacgtggaa gcagagcctg acttcactgc tcggacaag gagaaggagg ccaccaccag
gccttagggag accacacagc tcccagtac ccaacaggcc tcaacagcag ccagagccac
cacggcccag gcatctgtca cgtctcatcc ccacggggat gtcaacctg gcctccacga
gaccttggct cccacagcac ccggccaacc tgaccatcag cctccaagtg tggaggatgg
aggcacttct gtcataaag agtttgtgaa ggatgaaact accaatcagc ttccctgcagg
agagggctct ggagaacaag acttcacctt taaaacatct ggggagaaca cagctgtggc
tggcgtcgag cctgaccttc ggaatcagtc cccagtggat gaaggagcca caggtgcttc
tcagggcctt ttggacagga agaa [SEQ. ID NO:1]

ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha;
Muridae; Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima, T., Shworak, N.W. and Rosenberg, R.D.
TITLE Molecular cloning and expression of two distinct
cDNA-encoding heparan sulfate proteoglycan core proteins
from a rat endothelial cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 3: Syndecan-2 (human) extracellular domain (J 04621) :

ggcaggaggg agggagccag aggaaaagaa gaggaggaga aggaggagga cccggggagg
gaggcgccc gcgggaggag gaggggcgca gccgcggagc cagtggcccc gcttggacgc
gctgctctcc agataccccc ggagctccag ccgcgcggat cgccgcgtcc cgccgctctg
cccctaaact tctgccgtag ctcccttca agccagcgaa tttattcctt aaaaccagaa
actgaacctc ggcacggaa aggagtccgc ggaggagcaa aaccacagca gagcaagaag
agcttcagag agcagcctc ccggagcacc aactccgtgt cgggagtgca gaaacccaaca
agtgagaggg cgccgcgttc ccggggcgca gctgcggcg gcgggagcag ggcaggagg
aggaagcgag cgcccccgag ccccggccc gagtccccga gcctgagccg caatcgctgc
ggtaactctgc tccggattcg tgtgcgcgg ctcgcccggc gctgggcagg aggcttcgtt
ttgccctggg tgcaagcagc ggctgggagc agccgggtccc tgggaatat gggcgccg
tggatcctgc tcaccttggg cttgggtggcc tgctgtcgg cggagtcgag agcagagctg
acatctgata aagacatgta cttgacaac agtccattt aagaagctt aggagtgtat
cctattgtg acgatgacta cgcttctgcg tctggctcgg gagctgtatga gatgttag
agtccagagc tgacaacaac tcgaccactt ccaaagatac ttttgacttag tgctgctcca
aaagtggaaa ccacgacgct gaatatacag aacaagatac ctgctcagac aaagtccacct
gaagaaaactg ataaagagaa agttcacctc tctgactcag aaaggaaaat ggacccagcc
gaagaggata caaatgtgta tactgagaaa cactcagaca gtctgtttaa acggacagaa
[SEQ ID NO:2]

protein sequence:

GRREGARGKEEEEKEEDPGREARRGRRRGAAAEPVAPLGRAALQ
IPPELQPRGSRAPAALPLNFCRSSLSSQRIYSLKPETEPRHGKGVRGGAKPQQSKKSF
REQPSRSTNSVSGVQKPTSERAPRSRGAAAGGGSRRRRKRAPPSPESPLSRNRC
GTLLRIRVRLAERWAGGFVLPWLQAAAGSSRSLGNMRRRAWILLTLGLVACVSAESRA
ELTSDKDMYLDNSSIEEASGVYPIDDDDYASASGSGADEDVESPELTTRPLPKILLT
SAAPKVETTLNIQNPKIPAQTKSPEETDKEVHLSDSERKMDPAEEDTNVYTEKHSDS
LFKRTE [SEQ ID NO:3]

reference:

ACCESSION J0621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen, P., Zhang, J., Cassiman, J.J., Van den Berghe, H. and David, G.
TITLE Partial primary structure of the 48- and 90-kilodalton core proteins of cell surface-associated heparan sulfate proteoglycans of lung fibroblasts. Prediction of an integral membrane domain and evidence for multiple distinct core proteins at the cell surface of human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

Fig 4: Synd-3 (N-Syndecan) extracellular domain

```
gcccccgccgcgtgtgagccgtcctgcggcacgssatgcccgcggagctgcggcgcc  
tcgcgggtgtgtgtgtgtcagcgcggcgcagcgctggctcagccgtggcgcaatg  
agaactacgagaggccggtgacctggaggctctggggatgatcatcccttggggacg  
atgaactggatgacatctactcgggctccggctcaggcttttagcaggagtcaagggt  
tggagacagcggtcagcctcaccacggacacgtccgtcccactgccaccacggtggccg  
tgctgcctgtcaccttggcagccatggcaacaccctttagctgttccccacagagg  
acacgtcccctgagcaaacaaccagcgtttgtatatccccaaagataacagaaggcaccag  
tgatccccagctggaaaacaaccaccggccagtaccactgccagtactccccagtagcca  
cctccaccaccaccacggctgtaccaccacaaccaccaccatcagcacca  
ctgtggccacccatccaagccaccactaccagggttcctgcccccttgcaccaagg  
cagccaccaccggccaccaccctggagacgcccaccacccatccctgaaaccagg  
tcctgacagagggtgaccacatcacggctgtcccccacagccaaagccgaggtccc  
tgccaaaaccaaggacttccaggactgcagaaccacggaaaaaagcactgcctgcctt  
ccagccccaccacgctgccacccacagaagccccccaggtggagccaggagttgacga  
cagtcctcgacagtgacacttggaaagtcccaaccagtagtggccccagcgggacttcgaga  
tccaggaggaggaggagacaactcgtcctgagctggcaatgaggtggcagtggta  
caccaccaggcaccgggctggcaagaatgcagagccgggctcatcgacaacacaa  
tagagtggcagctcggctgctcagccccagaaaaacatcctggagaggaaggaa  
[SEQ ID NO:4]
```

Reference:

ACCESSION MB4910
LOCUS CHKSNDPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION MB4910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA
to mRNA.
ORGANISM Gallus gallus Eukaryotae; mitochondrial eukaryotes; Metazoa;
Chordata; Vertebrata; Archosauria; Aves; Neognathae;
Galliformes; Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Syndecan 3: a member of the syndecan family of membrane-
intercalated proteoglycans that is expressed in high amounts at
the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B, and Kosher,R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate
proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Fig. 5: Syndecan-4 extra-cellular domain from rat: M81786

```
atggc gcctgtctgc ctgtttgcgc cgctgctgct gttgctcctc  
ggagggttcc ccgtcgcccc aggcgagtcg attcgagaga ctgaggtcat agaccccccag  
gacctcctgg aaggcagata cttctctgga gccctcccg acgatgaaga cgctggggc  
ctttagcagg actctgactt tgagctgtcg gttccggag atcttagatga cacggaggag  
cccaggacct tccctgaggt gattcaccc ttggtgccac tagataacca catccccgag  
aatgcccagc ctggcatccg tgtcccctca gagcccaagg aactggaaga gaatgaggc  
attcccaaaa gggtcccctc cgacgtgggg gatgacgatg tgtccaacaa agtgtccatg  
tccagcactt cccagggcag caacatttt gaaagaactg ag [SEQ ID NO:5]
```

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION *Rattus norvegicus ryudocan* mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE *Rattus norvegicus* Epididymal fat pad cDNA to mRNA.
ORGANISM *Rattus norvegicus* Eukaryotae: mitochondrial eukaryotes: Metazoa:
Chordata: Vertebrata: Eutheria; Rodentia; Sciurognathi; Myomorpha:
Muridae: Murinae; *Rattus*.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 6: Glypican-1 (rat) extracellular Domain:

atggag
ctccgggccc gaggctggtg gctgctgtgc gcggccgccc cgctagtcgc ctgcgcccgc
ggggaccccg ccagcaagag ccggagctgc agcgaagtcc gccagatcta cggggctaag
ggcttagcc tgagcgacgt gccccggca gagatctcgag gagagcacct gcggatctgc
ccccaggcgt acacctgctg caccagttagt atggaggaga acctggccaa ccacagccgg
atggagctgg agaccgcact ccacgcccacg agccgtgccc tgcaggctac actggccacc
cagctgcattg gcatcgatga ccacttccag cgccctgctga atgactcgga gcgtacactg
caggatgctt ttcccggggc ctttggggac ctgtacacgc agaacactcg ggccttccgg
gaccctgtatg ctgagctgcg tctctactac cgaggggcca acctacacct tgaggagaca
ctggccgagt tctgggcacg gctgctggag cgtctttca agcagctgca ccccccagctt
ctgctgccc atgactatct ggactgcctg ggcaagcagg cagaggcact gcggccgttt
ggggatgccc ctgcagaact gcgcctgagg gccacccgtg ctttgggc ggcacgatcc
tttggcagg gcctgggtgt ggccagtgac gtatccgaa aggtggccca gttcctctg
gccccagaat gttctgggc tgtcatgaag ttggctact gtgcccatttgc cggggagtc
cctgggtgccc gcgcctgtcc cgactattgc cgaaatgtgc tcaaaggctg cttgccaac
caggccgacc tggatgccga gtggaggaac ctccctggact ccatggtgct catcaactgac
aagttctggg gcccgtcggt tgccgagaat gtcatggca gtgtgcataat gtggctggcg
gaggccatca acgcctcca ggacaacaag gacacactca cagctaaggt catccaggc
tgcggaaacc ccaaggtcaa tccccatggc tctgggcctg aggagaagcg tcgccgtggc
aaactggcac tgcaggagaa gtcctccaca ggtactctgg aaaagcttgtt ctctgaggcc
aaggcccagc tccgagacat tcaggactac tggatcagcc tcccaggac actgtgttagt
gagaagatgg ccatgagtcc tgccagcgat gaccgctgct ggaatggat ttccaaggc
cggtacctac ctgaggtgtat gggatggg ctggccacc agatcaacaa ccctgaagt
gaggtggaca tcaccaagcc ggatatgacc atccggcagc agatcatgca gctcaagatc
atgaccaacc gttacgtgg cgccctacggt ggcaatgatg tggacttcca ggatgcc
gatgacggca gtggctccgg cagcggtggc ggatgcccag atgacgcctg tggccggagg
gtcagcaaga agagctccag ctcccgacc ccctgaccc atgcccctccc cggcttgc
gaacaggagg gacagaagac ctgc [SEQ ID NO:6]

Protein sequence:

MELRARGWLLCAAAALVACARGDPASKSRSCSEVRQIYGAKG
SLSDVPQAEISGEHLRICPQGYTCCTSEMEENLANHSMELAHDSSRALQATLAT
QLHGIDDHFQRLLNDERTLQDAFPAGAFGDLYTQNTRAFRDLYAELRLYYRGANLHLE
ETLAEFWARILLERLFKQLHPQLLPDDYLDCLGKQAEALRPFGDAPRELRLRATRAFV
AARSFVQGLGVASDVVKVAQVPLAPECSSRAVMKLVYCAHCRGVPGARPCPDYCRNVL
KGCLANQADLDAEWRNLLDSMVLITDKFWGPSGAENVIGSVHMWLAEAINALQDNKDT
LTAKVIQGCNGPKVNPHGSGPEEKRRRGKLALQEKSSTGTLEKLVSEAKAQLRDIQDY
WISLPGTLCSEKMAMSPASDDRCWNGISKGRYLPEVMGDGLANQINNPEVEVDITKPD
MTIRQQIMQLKIMTNRLRGAYGGNDVDFQDASDDGSGSGSGGGCPDDACGRRVSKKSS
SSRTPLTHALPGLSEQEGQKTS [SEQ ID NO:7]

Reference:

ACCESSION L34067
NID g506416
KEYWORDS glypican.
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 1737)
AUTHORS Litwack, E.D., Stipp, C.S., Kumbasar, A. and Lander, A.D.

TITLE Neuronal expression of glypican, a cell-surface
 glycosylphosphatidylinositol-anchored heparan sulfate
 proteoglycan, in the adult rat nervous system
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Fig. 7: Syndecan-1 (rat) transmembrane domain: M81785

gtgct gggagggtgtc attgctggag gcctgggtgg
cctcatcttt gctgtgtgcc tggtggtttt catgctataac [SEQ ID NO:8]

Reference:

ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION *Rattus norvegicus* syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE *Rattus norvegicus* Epididymal fat pad cDNA to mRNA.
ORGANISM *Rattus norvegicus*
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; *Rattus*.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima, T., Shworak, N.W. and Rosenberg, R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig 8: Syndecan-2 (human) transmembrane domain (J 04621):

gtccttagcag ctgtcattgc tggtgagtt attggcttc tcttgcaat ttttcttac
ctgctgttgg tg [SEQ ID NO:9]

protein sequence:

VLAAVIAGGVIGFLFAIFLILLLV [SEQ ID NO:10]

reference:

ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen, P., Zhang, J., Cassiman, J.J., Van den Berghe, H. and David, G.
TITLE Partial primary structure of the 48- and 90-kilodalton core proteins of cell surface-associated heparan sulfate proteoglycans of lung fibroblasts. Prediction of an integral membrane domain and evidence for multiple distinct core proteins at the cell surface of human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

Fig. 9: Synd-3 (N-Syndecan chicken) Transmembrane domain

gtgttatacgctgtgattgtcggcggtgtggagccctttgccttcattgtca
tgctgctcatctac [SEQ ID NO:11]

Reference:

ACCESSION MB4910
LOCUS CHKSNDPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION MB4910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA
to mRNA.
ORGANISM Gallus gallus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Syndecan 3: a member of the syndecan family of membrane-
intercalated proteoglycans that is expressed in high amounts at
the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate
proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Figure 10: Syndecan-4 transmembrane domain from rat: M81786

gtcttggc agctctgatt gtgggcggcg tagtggcat cctttcgcc gtttcctga
tcctgctgct ggtgtac [SEQ ID NO:12]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima, T., Shworak, N.W. and Rosenberg, R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 11: Glypican-1 (rat) GPI-Transmembrane Domain:

gccgcc actcgccca agcctcacta cttcttctg
ctcttcctgt tcaccttggt cttgctgca gccaggcca ggtggcggta actgccc
[SEQ ID NO:13]

protein sequence:

ATRPEPHYFFLLFLFTLVLAARPRWR [SEQ ID NO:14]

Reference:

ACCESSION L34067
NID g506416
KEYWORDS glypican.
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 1737)
AUTHORS Litwack,E.D., Stipp,C.S., Kumbasar,A. and Lander,A.D.
TITLE Neuronal expression of glypican, a cell-surface
glycosylphosphatidylinositol-anchored heparan sulfate
proteoglycan, in the adult rat nervous system
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Figure 12: Perlecan (human) transmembrane domain #M85289

tcgcgacactgctcatcccag
ccatcacqactqctgacgccggcttctacctctgcgtggccaccagccctgcaggcactgcc
[SEQ ID NO:15]

Reference:

LOCUS HUMHSPG2B 14327 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG2) mRNA, complete cds.
ACCESSION M85289
NID g184426
KEYWORDS HSPG2 gene; heparan sulfate proteoglycan.
SOURCE Homo sapiens skin; colon cDNA to mRNA.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 14327)
AUTHORS Dodge,G.R., Kovalszky,I., Chu,M.L., Hassell,J.R., McBride,O.W.,
Yi,H.F. and Iozzo,R.V.
TITLE Heparan sulfate proteoglycan of human colon: partial molecular
cloning, cellular expression, and mapping of the gene (HSPG2) to
the short arm of human chromosome 1
JOURNAL Genomics 10 (3), 673-680 (1991)
MEDLINE 91365376
REFERENCE 2 (bases 1 to 14327)
AUTHORS Murdoch,A.D., Dodge,G.R., Cohen, I., Tuan,R.S. and Iozzo,R.V.
TITLE Primary structure of the human heparan sulfate proteoglycan from
basement membrane (HSPG2/perlecan). A chimeric molecule with
multiple domains homologous to the low density lipoprotein
receptor, laminin, neural cell adhesion molecules, and epidermal
growth factor
JOURNAL J. Biol. Chem. 267 (12), 8544-8557 (1992)

Figure 13: Syndecan-4 cytoplasmic domain from rat: M81786

Cgc atgaagaaga aggatgaagg cagttacgac ttggcaaga aaccatcta caaaaaagcc
cccaccaacg agttctacgc atga [SEQ ID NO:16]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)